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IS 14660-2 (1999): Shipbuilding - Filling Connection for Drinking Water Tanks, Part 2: Components [TED 17: Shipbuilding]

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IS 14660 (Part 2) : 1999

(Reaffirmed 2003)

भारतीय मानक

पोत निर्माण - टंकी में पीने का पानी भरने के लिए भराव संयोजन

भाग 2 घटक

Indian Standard

SHIPBUILDING — FILLING CONNECTION FOR DRINKING WATER TANKS

PART 2 COMPONENTS

ICS 47.020.30

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

July 1999

Price Group 2

Shipbuilding Sectional Committee, TED 17

FOREWORD

This Indian Standard (Part 2) was adopted by the Bureau of Indian Standards, after the draft finalized by the Shipbuiding Sectional Committee had been approved by the Transport Engineering Division Council.

This standard (Part 2) specifies the technical details of the components of filling connection and lays down the designation of main components.

The other part of this standard is IS 14660 (Part 1) 'Shipbuilding — Filling connection for drinking water tanks: Part 1 General requirements'.

In order to achieve harmony with the international practices, this standard is based on ISO 5620-2:1992 'Shipbuilding and marine structure — Filling connection for drinking water tanks — Part 2 : Components', published by the International Organization for Standardization .

The requirements of the statutory authorities are to be complied with as may be applicable to the individual ship concerned.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SHIPBUILDING — FILLING CONNECTION FOR DRINKING WATER TANKS

PART 2 COMPONENTS

1 SCOPE AND FIELD OF APPLICATION

This standard (Part 2) specifies the technical details of the components of the filling connection and lays down the designation of the main components such as flanges, securing bolts and gasket.

2 REFERENCES

The following standards contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	*Title*
2062 : 1992	Steel for general structural purposes (*fourth revision*)
2687 : 1991	Cap nuts — Specification (*second revision*)
3039 : 1988	Structural steel for construction of hulls of ships (*second revision*)
5517 : 1993	Steels for hardening and tempering (*second revision*)
6094 : 1981	Hexagonal socket set screws (*first revision*)
6863 : 1973	Clevis pins with head
10719 : 1983	Method of indicating surface texture on technical drawings
14660 (Part 1) : 1999	Shipbuilding — Filling connection for drinking water tanks: Part 1 General requirements

3 SUPPLY WATERING FLANGE (A)

This flange shall be used for the piping or hose line to the drinking water supply source.

3.1 Dimensions

The dimensions of the supply watering flange (code letter A) shall be as given in Fig. 1.

3.2 Material

Steel according to Grade A of IS 2062.

NOTE—Alternatively ship quality steel plate conforming to Grade A of IS 3039 may be used.

3.3 Designation

The designation of a supply watering flange (code letter A) according to this Indian Standard shall be:

Flange IS 14660 (Part 2) A.

4 SHIP WATERING FLANGE (B)

4.1 Dimensions

The dimensions of the ship watering flange (code letter B) shall be as given in Fig. 2.

4.2 Material

Hot dip galvanized steel according to Grade A of IS 2062.

NOTE—Alternatively ship quality steel plate conforming to Grade A of IS 3039 may be used.

4.3 Designation

The designation of a ship watering flange (code letter B) according to this Indian Standard shall be:

Flange IS 14660 (Part 2) B.

5 SHIP WATERING BLIND FLANGE (C)

5.1 Dimensions

The dimensions of the ship watering blind flange (code letter C) shall be as given in Fig. 3.

5.2 Material

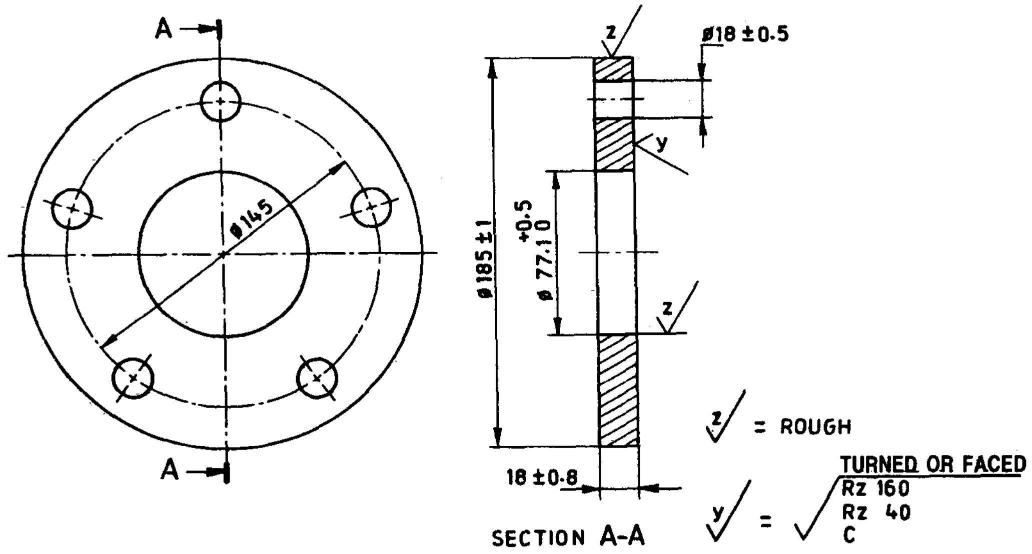
Hot dip galvanized steel according to Grade A of IS 2062.

NOTE—Alternatively ship quality steel plate conforming to Grade A of IS 3039 may be used.

5.3 Designation

The designation of a ship watering blind flange (code letter C) according to this Indian Standard shall be:

Flange IS 14660 (Part 2) C.



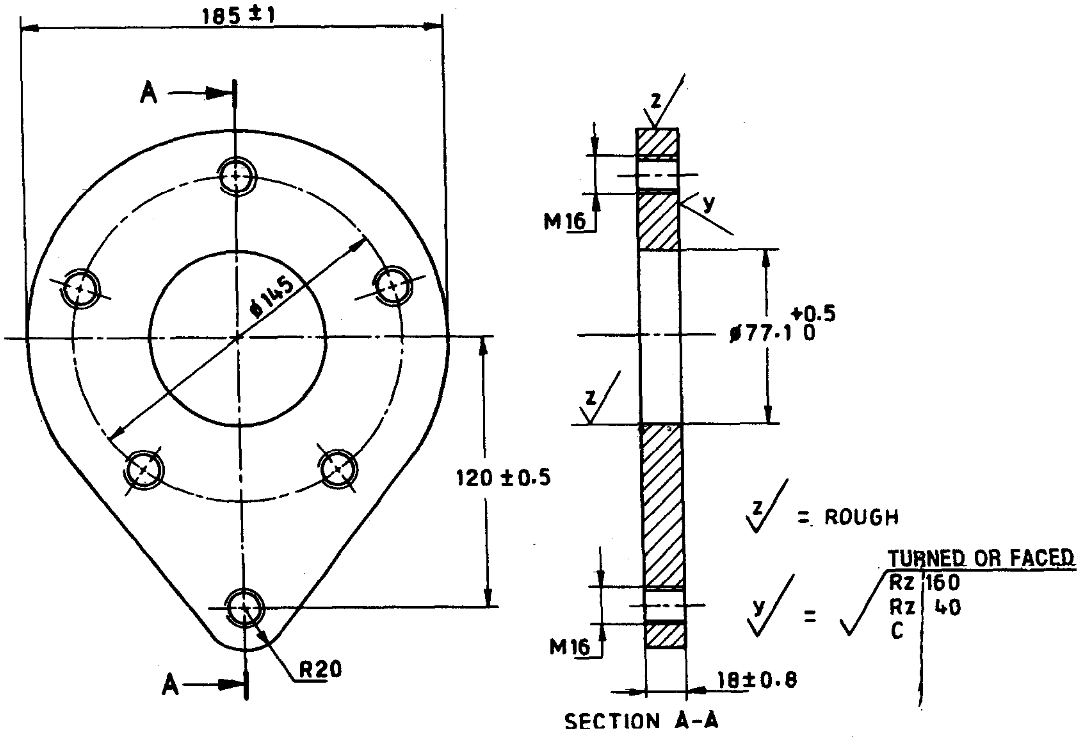
NOTES

1 Positioning of holes shall be in accordance with Part 1 of this standard.

2 Surface texture in accordance with IS 10719.

All dimensions in millimetres.

FIG. 1 DIMENSIONS OF SUPPLY WATERING FLANGE



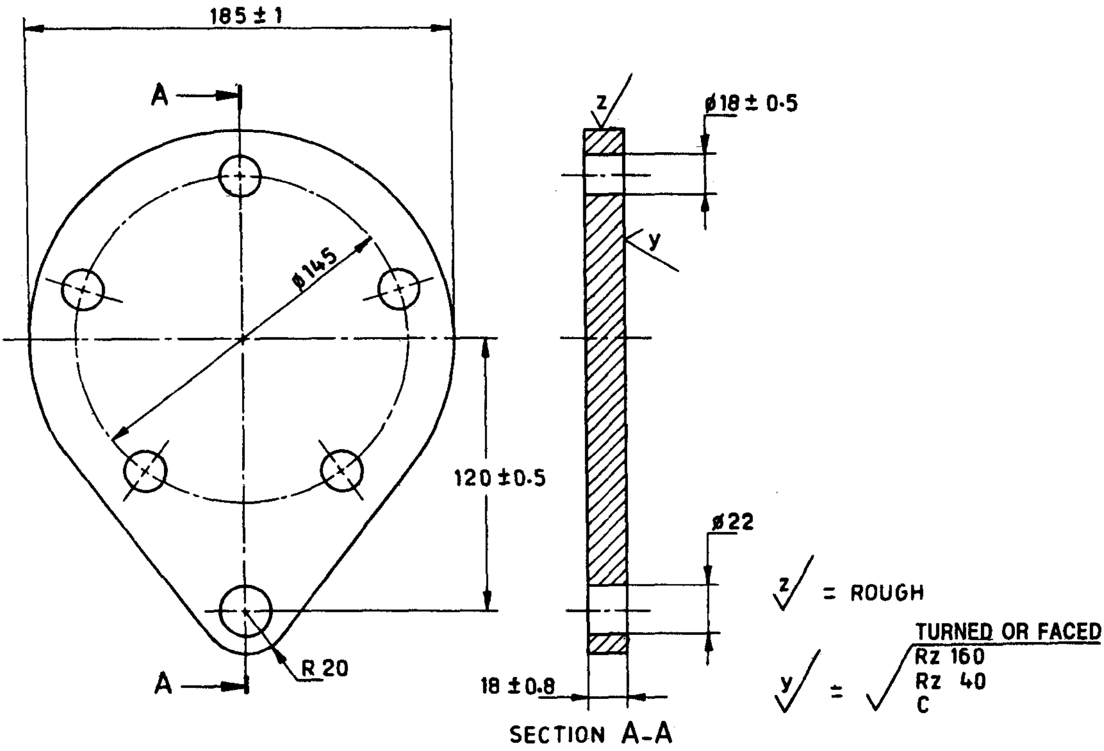
NOTES

1 Positioning of holes shall be in accordance with Part 1 of this standard.

2 Surface texture in accordance with IS 10719.

All dimensions in millimetres.

FIG. 2 DIMENSIONS FOR SHIP WATERING FLANGE



NOTES

1 Positioning of holes shall be in accordance with Part 1 of this standard.

2 Surface texture in accordance with IS 10719.

All dimensions in millimetres.

FIG. 3 DIMENSIONS OF SHIP WATERING BLIND FLANGE

6 SECURING BOLT (D)

6.1 Dimensions

The dimensions of the securing bolt (code letter D) shall be as given in Fig. 4. Where semi-finished products are used, a clevis pin according to IS 6863 A20 × 85 shall be used.

6.2 Material

Steel compatible with the material of the parent system from corrosion point and of strength to suit system pressure.

6.3 Designation

The designation of a securing bolt (code letter D) according to this Indian Standard shall be:

Flange IS 14660 (Part 2) D.

7 GASKET (E)

7.1 Dimensions

The dimensions of the gasket (code letter E) shall be as given in Fig. 5.

7.2 Material

Sea water resistant elastomer material, which is acceptable for drinking water.

7.3 Designation

The designation of a gasket (code letter E) according to this Indian Standard shall be:

Gasket IS 14660 (Part 2) E.

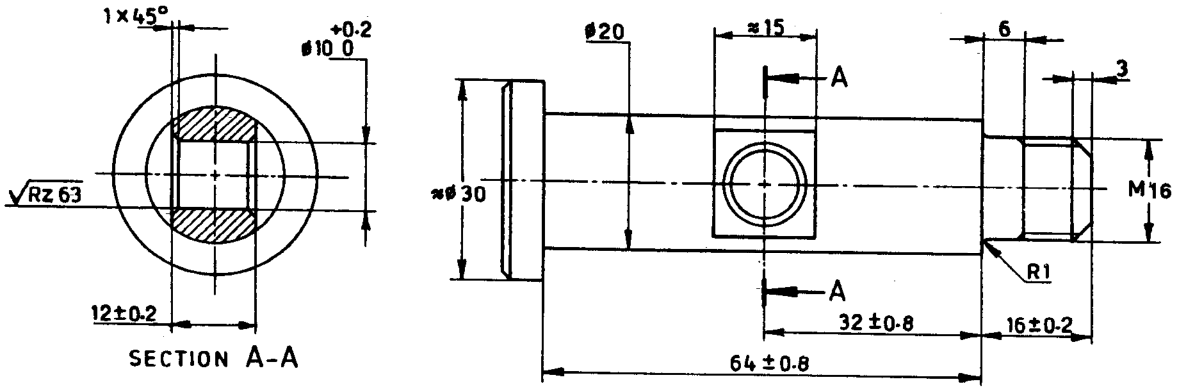
8 STUD

Stud M 16, made of steel compatible with the material of the parent system from corrosion point and of strength to suit system pressure be used and fitted in the watering flange.

NOTE — Alternatively hexagon socket set screws with flat point according to IS 6094 made of non-corridible steel may be used.

9 NUTS

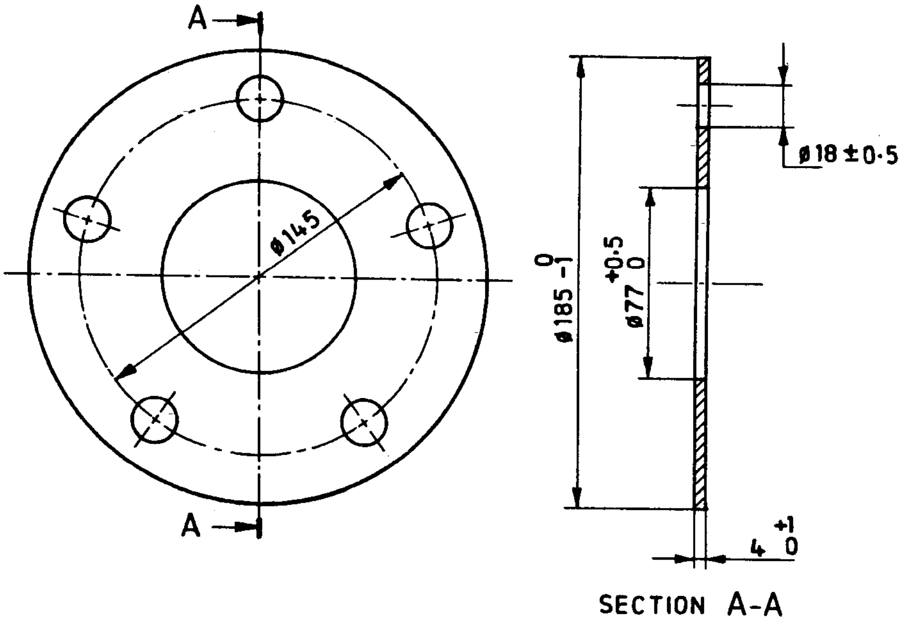
Hexagon cap nuts M 16, made of steel compatible with the material of the parent system from corrosion



NOTE—Surface texture in accordance with IS 10719.

All dimensions in millimetres.

FIG. 4 DIMENSIONS OF SECURING BOLT



All dimensions in millimetres.

FIG. 5 DIMENSIONS OF GASKET

point and of strength to suit system pressure shall be used.

NOTE — Alternatively ordinary hexagon nuts M 16 according to IS 2687 may be used, provided that they are of same material.

10 PADLOCK

The padlock should have an eye serving for the connection of the securing chain. The hinged locking strap shall have a width of 30 mm approximately. Its diameter shall be 8 mm approximately.

The internal components of the padlock shall be of non-corrodible metallic materials (for instance brass). All other components may be made of steel.

11 SECURING CHAIN

The chain should have at one end an *S*-shaped hook for fastening the chain at the securing bolt, on the other end it should have a securing ring for padlock connection.

Common small chains without quality requirements may be used, for instance knotted link chains, *see* Fig. 6.

These shall be made of non-corrodible steel.

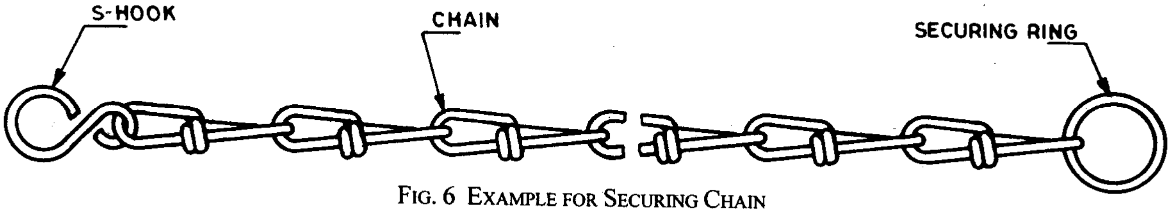


FIG. 6 EXAMPLE FOR SECURING CHAIN